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Occultation of Regulus. By the Rev. S. J. Johnson, M.A.

In contrast to the clouded state of the sky when *Aldebaran* was occulted on the 7th, a perfectly clear air prevailed during immersion of *Regulus* on the morning of the 13th. Disappearance $4^{h}\ 41^{m}\ 50^{s}$ morn. (time taken by sextant only.) But the point of interest was that the star assumed the appearance of visibility through the bright disc of the Moon during three beats of the chronometer ($1\frac{1}{2}$ second) before finally vanishing. Employed a power of 50 on $3\frac{1}{4}$ inches. *Mars* was included in the field of the finder, contrasting not a little in tint with the whiteness of *Regulus* and the yellow lunar disc. Emersion through haze at $5^{h}\ 47^{m}\ 19^{s}$. This might have been observed with the naked eye in a clear sky, as the star was readily visible to unaided vision directly afterwards.

Melplash Vicarage, Bridport:
October 22.

Note on the Latitude and Longitude of Maresfield Observatory.

By Captain W. Noble.

After the erection of my observatory I determined its geographical coordinates (by the best means then at my disposal) as follow :—

Latitude 51° 0′ 58″·3 N., and
Longitude 17·5 seconds E.;

and these quantities appear in every communication of mine to the Society (in which they were involved) up to the year 1874.

In 1873, however, the Ordnance Survey of the county of Sussex for the 25-inch map was completed, and at the end of that year I applied to the Director-General for the position of a bench mark made at the time. In reply I was furnished with a position (as it has since turned out) 3″·5 in error in latitude, and 10″·1 wrong in longitude = 355 feet and 646 feet respectively; but I altered my assumed coordinates in accordance with it.

Recently the present Director-General of the Ordnance Survey has obligingly furnished me with the absolutely accurate place of the bench mark of which I have spoken, and triangulating from it to the centre of my transit pier I find that to be situated in

Latitude 51° 0′ 59″·8 N., and
Longitude 17·11 seconds E.;

a determination in which I have the highest confidence.

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Ephemeris for Physical Observations

Greenwich Noon		Angle of Position of ♃'s Axis. P	Latitude of Earth above ♃'s Equator. B	Latitude of Sun above ♃'s Equator. *B*	Annual Parallax. A−L.	L−O.	Longitude of ♃'s Central Meridian. (878°·25) I.	Longitude of ♃'s Central Meridian. (870°·27) II.	Corr. for Phase.
1887. Dec.	24	13°·923	−2°·990	−3°·060	−6°·202	100°·800	21°·23	86°·11	+0°·168
	29	13·552	2·999	3·058	6·794	101·779	91·76	116·74	·201
1888. Jan.	3	13·189	−3·007	−3·056	−7·358	102·728	162·34	147·42	+0·236
	8	12·834	3·015	3·054	7·889	103·644	232·98	178·16	·271
	13	12·489	3·023	3·052	8·383	104·525	303·67	208·95	·306
	18	12·157	3·031	3·050	8·837	105·366	14·42	239·79	·340
	23	11·838	3·038	3·048	9·247	106·163	85·23	270·70	·372
	28	11·535	3·046	3·045	9·610	106·913	156·10	301·66	·402
Feb.	2	11·251	−3·054	−3·042	−9·924	107·613	227·03	332·69	+0·429
	7	10·987	3·062	3·040	10·183	108·259	298·03	3·79	·451
	12	10·744	3·070	3·037	10·384	108·848	9·09	34·95	·469
	17	10·525	3·078	3·034	10·523	109·375	80·22	66·17	·482
	22	10·333	3·085	3·030	10·598	109·837	151·42	97·47	·489
	27	10·168	3·093	3·027	10·605	110·231	222·69	128·83	·489
Mar.	3	10·032	−3·101	−3·023	−10·541	110·555	294·02	160·26	+0·483
	8	9·926	3·109	3·020	10·404	110·806	5·43	191·76	·471
	13	9·852	3·117	3·016	10·191	110·982	76·90	223·33	·452
	18	9·810	3·125	3·012	9·901	111·080	148·44	254·97	·427
	23	9·801	3·132	3·008	9·532	111·100	220·05	286·67	·395
	28	9·825	3·139	3·004	9·085	111·042	291·72	318·43	·359
Apr.	2	9·882	−3·146	−2·999	−8·560	110·906	3·44	350·26	+0·319
	7	9·970	3·151	2·995	7·959	110·694	75·22	22·14	·276
	12	10·089	3·156	2·990	7·284	110·409	147·05	54·06	·23
	17	10·237	3·159	2·985	6·539	110·053	218·93	86·03	·18
	22	10·412	3·161	2·980	5·729	109·633	290·84	118·04	·14
	27	10·610	3·161	2·975	4·861	109·156	2·77	150·08	·10
May	2	10·827	−3·160	−2·970	−3·944	108·628	74·72	182·13	+0·06
	7	11·061	3·157	2·965	2·983	108·057	146·68	214·19	·03
	12	11·307	3·152	2·959	1·988	107·453	218·64	246·24	·01
	17	11·561	3·145	2·954	−0·972	106·829	290·58	278·28	+0·00
	22	11·817	3·135	2·948	+0·054	106·193	2·49	310·29	...
	27	12·071	3·123	2·942	1·081	105·557	74·37	342·27	−0·00
June	1	12·320	−3·110	−2·936	+2·098	104·932	146·20	14·20	·01
	6	12·559	3·095	2·930	3·093	104·329	217·97	46·07	−0·04
	11	12·784	3·078	2·924	4·056	103·757	289·67	77·87	·07

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